

LIST OF SUB-TITLES OF MOTION PICTURE ENTITLED
"MODERN COKE AND GAS MANUFACTURE"

Apr 29, 1920

Main Title.

©CLM 1584 C Modern Coke and Gas Manufacture ✓
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Sub-Titles.

By the old method of making coke in the beehive oven, coke only is recovered, the volatile content of the coal passing off in smoke, wasting products each year worth more than \$100,000,000.

Typical beehive ovens in the Connellsville, Pa. District.

Modern Method of Making Coke and Gas.

The Plant of the Seaboard By-Product Coke Company, Jersey City, N. J.
Designed and built by The Koppers Company, Pittsburgh, Pa.

View from across Hackensack River.

The Plant consists of 165 Koppers ovens in 3 batteries of 55 ovens each, with by-product apparatus for the recovery of gas, tar, ammonia and benzol. The carbonizing capacity is 3000 tons of coal per day and the surplus gas supplies the cities of Newark and Jersey City.

Receiving coal by rail.

Some plants use a revolving car dumper.

Receiving coal by water.

Belt conveyors carry the coal to the crusher and mixers and thence to the storage bin at the ovens.

Coal Handling Bridge and Storage Yard.

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Coal Storage Bin.

Loading Coal Charging Car.

Charging Coal into Ovens.

Inspecting Vertical Oven Heating Flues.

Combination pusher, leveler and door lifting machine.
Leveling charge of coal.

Sealing Door with Clay to make Oven Gas-tight.

Removing Door from Oven.

Coke Side of Ovens with Coke Guide and Door Lifting Machine.

Pushing Coke from Oven.

Coke Quenching Station

Unloading Quenching Car at Coke Wharf.

Coke Wharf Feeders and Belt Conveyors.

Screening Station where Coke is Separated into Furnace, Foundry and Domestic sizes.

Loading Coke for Shipment.

The Gas from the Coal is drawn from Ascension Pipes at the top of each Oven through Suction Mains to the Primary Coolers.

After cooling the Gas it passes to the By-Product Building.

Interior of By-Product Building showing Recovery Apparatus.

Snow-White Salt from Coal. Ammonium Sulphate dried in Centrifugal Machines.

Sulphate Storage Room.

Storage Tanks.

Gas Purifiers.

Gas Holder.

Washers for Recovering Light Oil from Gas.

Benzol Recovery Plant.

Interior of Benzol Building.

Testing Laboratory.

SYNOPSIS

OF MOTION PICTURES OF THE KOPPERS COMPANY, PITTSBURGH, PA. ENTITLED "MODERN COKE AND GAS MANUFACTURE "

The art of making coke and gas is shown as practiced at the plant of the Seaboard By-Product Coke Company, Jersey City, N. J.

First the old method of making coal in the beehive oven is shown, followed by a panoramic view of the modern plant of the Seaboard By-Product Coke Company.

Shipment of coal into the plant is shown, both by rail and by water, and the unloading and conveying system which carries the coal to the coal bin at the ovens from where it is loaded into coal charging cars and charged into the oven chamber.

Next is shown the pusher machine leveling the charge of coal into the oven, the oven doors being removed, and the coke being pushed into a coke quenching car; coke being quenched at the quenching station and the quenching car unloading at the coke wharf; the coke conveying system and loading the coke for shipment by rail and water.

The apparatus for taking the gas is shown from the time the gas is drawn from the oven until it passes into the saturators, which recover the ammonia and to the purifiers and holder.

There is also shown the apparatus for recovering tar and benzol from the coal.

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